

about 20° was observed at 9.45 p. m. The arch lasted one hour and was followed by streamers of a pale yellow color, with an apparent movement from east to west. The display disappeared about midnight.

On the 10th an aurora consisting of an arch of white light about 3° in width, extending from east to west, and resting on a dark segment, was observed at Marquette, Mich., from 8.25 to 8.55 p. m., with a few beams of pale white light.

At Buffalo, N. Y., the most brilliant aurora observed in years was noted on the 11th. The display appeared as a well-defined arch about 5° in width extending about 60° east and west of north at 8.50 p. m. At 10.48 p. m. a second arch appeared. The display ended 11.45 p. m. At Alpena, Mich., a fan-shaped aurora, with the point resting on the horizon, and a lateral movement from west to east, was observed from 10.15 to 11.55 p. m. At Bismarck, N. Dak., an aurora consisting of an irregular display of streamers in the north commenced at 9 p. m. At 10 p. m. what appeared to be an immense ball of fire was observed in the northwest quadrant, where it remained 15 minutes with very brilliant streamers having an apparent motion from east to west. The display disappeared 11.30 p. m. At Rapid City, S. Dak., an aurora was first observed at 10.30 p. m. At 11.05 p. m. an arch resting on a dark base extended from 135° to 215° azimuth and about half way to the zenith, with a few small beams of light. The display continued until the morning of the 12th.

THUNDERSTORMS.

Description of the more severe thunderstorms reported for the month is given under "Local storms."

Thunderstorms were reported as follows: East of the Rocky

Mountains they were reported in the greatest number of states, 22, on the 28th; in 15 to 20 on the 1st to 3d, 5th, 13th to 15th, 17th to 19th, 27th, and 29th; in 10 to 14 on the 6th, 8th, 11th, 12th, 16th, 20th, 24th, and 26th; in 5 to 9 on the 4th, 7th, 9th, 10th, 21st to 23d, 25th, and 30th. There was no date for which thunderstorms were reported east of the Rocky Mountains in less than 5 states.

East of the Rocky Mountains thunderstorms were reported on the greatest number of dates, 29, in Florida; on 22 in Texas; on 15 to 20 in Iowa, Kansas, Louisiana, Michigan, Nebraska, New York, and South Dakota; on 10 to 14 in Illinois, Minnesota, Missouri, New Jersey, North Carolina, North Dakota, Ohio, Pennsylvania, and Wisconsin; on 5 to 9 in Arkansas, Connecticut, Kentucky, Maine, Maryland, Massachusetts, Mississippi, South Carolina, Tennessee, Vermont, and Virginia; and on 1 to 4 in Alabama, District of Columbia, Georgia, Indiana, Montana, New Hampshire, Oklahoma Territory, Rhode Island, and West Virginia. In Delaware and Indian Territory no thunderstorms were reported.

West of the Rocky Mountains thunderstorms were reported in Arizona on the 2d, 9th, 10th, 16th, 17th, 20th to 24th, and 29th; in California on the 2d to 7th, 13th, 15th, and 21st; in Colorado on the 1st to 7th, 9th to 12th, 14th, 18th, 19th, 21st to 27th, and 30th; in Idaho on the 9th and 27th; in Nevada on the 3d, 5th to 10th, 15th, and 22d; in New Mexico on the 1st, 2d, 6th, 7th, 14th, 18th to 25th, 29th, and 30th; in Oregon on the 2d, 3d, 7th, 12th, 13th, 18th, and 28th to 30th; in Utah on the 1st, 3d, 4th, 6th, 7th, 9th to 11th, 15th, 16th, 18th, and 21st to 25th; in Washington on the 3d, 9th, 13th, 17th to 19th, 21st, 22d, and 28th; and in Wyoming on the 1st, 8th, 10th, 15th, 23d, 24th, and 27th.

MISCELLANEOUS PHENOMENA.

DROUGHT.

Very dry weather prevailed in western New England, parts of Maryland, western Virginia, central Alabama, western Florida, in Mississippi and eastern Louisiana, Tennessee, Arkansas, Missouri, Illinois, eastern Ohio, central and southern Wisconsin, Iowa, South Dakota, Nebraska, eastern Kansas, and central New Mexico. In New England a scarcity of water caused the closing of mills, and in a number of the Southern and Western States drought injured crops and caused a suspension of farm work.

Cane, rice, and cotton were injured in Louisiana. Crops of all kinds were damaged and farming operations were almost entirely suspended in Tennessee and Arkansas. Drought

was general in Illinois. In Ohio fall pastureage and the water supply were seriously affected. Streams were low and wells were failing in parts of Iowa.

PRAIRIE AND FOREST FIRES.

On the 17th and 18th extensive prairie fires were reported in parts of North Dakota, and near Rapid City, S. Dak., and on the 27th, in Emmons county, N. Dak., in northern South Dakota, and in Chippewa county, Wis.

On the 24th forest fires were reported in Barron, Polk, Washburn, Wood, Burnett, and Waupaca counties, Wis.; from the 24th to 27th near Osceola Mills, Wis.; and on the 29th in El Dorado county, Cal.

STATE WEATHER SERVICES.

[Temperature in degrees Fahrenheit; precipitation, including melted snow, in inches and hundredths.]

The following extracts and summaries are republished from reports for September, 1891, of the directors of the various state weather services:

ALABAMA.

Temperature.—The mean was 6.3 below the normal; maximum, 95, at Wiggins, 19th, 22d, and 23d; minimum, 46, at Jasper, 24th; greatest monthly range, 45, at Brewton; least monthly range, 30, at Union Springs, Citronelle, Selma, and Goodwater.

Precipitation.—The average was 0.37 below the normal; greatest monthly, 6.90, at Fort Deposit; least monthly, 0.20, at Chepultepec.

Wind.—Prevailing direction, northeast.—*P. H. Mell, Observer, Weather Bureau, Auburn, director.*

ARKANSAS.

Temperature.—The mean was 0.8 below the normal; maximum, 102, at Lead Hill, 24th; minimum, 40, at Rogers, 4th; greatest monthly range, 57, at Lead Hill; least monthly range, 22, at Winslow.

Precipitation.—The average was 2.50 below the normal; greatest monthly, 5.80, at Texarkana; least monthly, 0.00, at Gaines Landing and Harrisburgh.

Wind.—Prevailing direction, southeast.—*M. F. Locke, Commissioner of Agriculture, Little Rock, director; F. H. Clarke, Observer, Weather Bureau, assistant.*

COLORADO.

Temperature.—The mean was above the average at all stations, and at points in the Arkansas Valley was the highest on record; the maximum at Cheyenne Wells, 104, 14th, was the highest maximum on record for September; minimum, 21, at Alma, 23d, and at Cumbres, 27th.

Precipitation.—The average was greatest west of the range, and least in the upper Arkansas valley and in the southeastern counties; greatest monthly, 7.32, at Cumbres; least monthly, 0.12, at Byers.—*W. S. Miller, Observer, Weather Bureau, Denver, director.*

ILLINOIS.

Temperature.—The mean was 4.5 above the normal of the last 16 years; maximum, 100, at Pontiac, 23d, at Griggsville, 24th, at Greenville, 24th and 25th, and at Carlinville, 26th; minimum, 37, at Hennepin, 4th.

Precipitation.—The average was 2.07 below the normal; greatest monthly, 2.02, at White Hall; least monthly, 0.15, at Beason.

Wind.—Prevailing direction, southwest.—*John Craig, Observer, Weather Bureau, Springfield, director.*

INDIANA.

Temperature.—Maximum, 98, at Princeton, 24th and 25th; minimum, 36, at Marion, 14th; greatest monthly range, 56, at Point Isabel; least monthly range, 35, at Butlerville.

Precipitation.—Greatest monthly, 5.65, at Huntingburgh; least monthly, 0.34, at Valparaiso.

Wind.—Prevailing direction, south.—*Prof. H. A. Huston, La Fayette, director; C. F. R. Wappenhans, Observer, Weather Bureau, assistant.*

IOWA WEATHER AND CROP SERVICE.

The month was remarkable for high temperature, and the last half of the month was warmer than any corresponding period on record.

Temperature.—Maximum, 104, at Glenwood, 22d; minimum, 28, at Greenville, 6th; greatest monthly range, 67, at Atlantic; least monthly range, 38, at Washington.

Precipitation.—The average was below the normal; greatest monthly, 3.60, at Eagle Grove; least monthly, 0.13, at Hopeville.

Wind.—Prevailing direction, south.—*J. R. Sage, Des Moines, director; G. M. Chappel, Observer, Weather Bureau, assistant.*

KANSAS.

Temperature.—Maximum, 107, at Columbus, 20th, 22d, and 24th; minimum, 31, at Agricultural College, Lebo, and Seneca, 29th; greatest monthly range, 68, at Columbus; least monthly range, 48, at Weskan.

Precipitation.—Greatest monthly, 8.60, at Morton; least monthly, 0.15, at La Harpe.

Wind.—Prevailing direction, south.—*Prof. J. T. Lovewell, Topeka, director; T. B. Jennings, Observer, Weather Bureau, assistant.*

KENTUCKY.

Temperature.—The mean was nearly normal; maximum, 97, at Frankfort, 22d and 23d; minimum, 42, at Harrodsburgh, 9th; greatest monthly range, 54, at Harrodsburgh; least monthly range, 35, at Caddo.

Precipitation.—The average was about 0.50 below the normal; greatest monthly, 3.03, at Pellville; least monthly, 0.33, at Canton.

Wind.—Prevailing direction, south.—*Prof. E. H. Mark, Louisville, director; Frank Burke, Observer, Weather Bureau, assistant.*

LOUISIANA.

Temperature.—The mean was nearly normal; maximum, 100, at Liberty Hill, 15th; minimum, 42, at Winnsborough, 4th; greatest monthly range, 56, at Winnsborough; least monthly range, 20, at Port Eads.

Precipitation.—The average was deficient; greatest monthly, 11.17, at Luling; least monthly, trace, at Winnsborough.

Wind.—Prevailing direction, northeast.—*George E. Hunt, Observer, Weather Bureau, New Orleans, director.*

MARYLAND.

Temperature.—Maximum, 92, at Kirkwood, Del., 19th; minimum, 42, at Mount Saint Marys, 9th; greatest monthly range, 48, at Mount Saint Marys; least monthly range, 20, at Jewell.

Precipitation.—Greatest monthly, 6.75, at Summit Hall; least monthly, 0.53, at Barren Creek Springs.

Wind.—Prevailing direction, northwest.—*Dr. William B. Clark, Johns Hopkins University, Baltimore, director; Prof. Milton Whitney, Maryland Agricultural College, secretary and treasurer; C. P. Cronk, Observer, Weather Bureau, in charge.*

MICHIGAN.

Temperature.—Maximum, 101, at Caldwell, 20th; minimum, 24, at Gaylord, 30th; greatest monthly range, 65, at Caldwell; least monthly range, 34, at Bell Branch.

Precipitation.—Greatest monthly, 3.96, at Thornville; least monthly, 0.44, at Montague.

Wind.—Prevailing direction, southwest.—*N. B. Conger, Observer, Weather Bureau, Detroit, director.*

MINNESOTA.

Temperature.—The mean was 6.0 to 7.0 above the normal; maximum, 101, at Montevideo; minimum, 32, at Crookston, 29th, and at Moorhead, 3d; greatest monthly range, 68, at Montevideo; least monthly range, 41, at Lake Winnibigoshish.

Precipitation.—The average was 1.00 to 2.00 below the normal, except in the Red River Valley, where a slight excess was reported; greatest monthly, 4.31, at Lake Winnibigoshish; least monthly, 0.79, at Montevideo.

Wind.—Prevailing direction, south.—*J. H. Harmon, Observer, Weather Bureau, Minneapolis, director.*

MISSISSIPPI.

Temperature.—The mean was 0.5 above the normal; maximum, 104, at Louisville, 23d; minimum, 42, at Water Valley, 5th; greatest monthly range, 60, at Louisville; least monthly range, 21, at Bay Saint Louis.

Precipitation.—The average was 2.74 below the normal; greatest monthly, 7.90, at Bay Saint Louis; least monthly, 0.00, at Okolona and Kosciusko.—*R. B. Fulton, Observer, Weather Bureau, University, director.*

MISSOURI.

Temperature.—Cool waves passed over the state on the 4th and 29th, resulting in light frost on the latter date; the mean was 3.0 above the normal; maximum, 104, at Oak Ridge, 24th.

Precipitation.—The rainfall was very limited, more so than for any September on record; from only 7 points in the state was more than 1.00 reported, the greatest being 1.95 at Jefferson City.—*Levi Chubbuck, Secretary of State Board of Agriculture, Columbia, director.*

NEBRASKA.

Temperature.—The mean was 5.0 above the normal, and was the highest on record for September; light frosts occurred on the 3d and 29th, the latter doing slight damage in some localities.

Precipitation.—The rainfall varied from 1.00 to 3.00; in the south-central part there was an area of more abundant rainfall, reaching a maximum of 4.95 at Holdredge.

Wind.—Prevailing direction, south.—*Prof. Goodwin D. Swezey, Crete, director; G. A. Loveland, Observer, Weather Bureau, assistant.*

NEVADA.

Temperature.—The mean was 5.1 below the normal; maximum, 98, at Palisade and Wabuska, 1st; minimum, 5, at Eureka, 30th.

Precipitation.—The average was 0.24 above the normal; snow fell in portions of the state during the last decade of the month.—*Prof. Charles W. Friend, Carson City, director; F. A. Carpenter, Observer, Weather Bureau, assistant.*

NEW ENGLAND METEOROLOGICAL SOCIETY.

Temperature.—The mean was 3.4 above the normal; maximum, 92, at Farmington, 25th; minimum, 30, at Berlin Mills, 9th; greatest monthly range, 62, at Farmington; least monthly range, 25, at Block Island.

Precipitation.—The average was 0.90 below the normal; greatest monthly, 5.57, at Cotuit; least monthly, 0.74, at Williamstown.

Wind.—Prevailing direction, southwest.—*Prof. William H. Niles, Boston, Mass., president; Prof. Winslow Upton, Providence, R. I., secretary; J. Warren Smith, Observer, Weather Bureau, assistant.*

NEW JERSEY.

Temperature.—The mean was 3.4 above the normal; maximum, 94, at Tenafly, 18th; minimum, 39, at Tenafly, 10th; greatest monthly range, 55, at Tenafly; least monthly range, 34, at Asbury Park.

Precipitation.—The average was 1.43 below the normal; greatest monthly, 5.91, at Oceanic; least monthly, 0.90, at Atlantic City.

Wind.—Prevailing direction, southeast.—*E. W. McGann, Observer, Weather Bureau, New Brunswick, director.*

NEW MEXICO.

Temperature.—Maximum, 96, at Los Lunas, 3d; minimum, 27, at Monero, 19th and 20th; greatest monthly range, 60, at Chama; least monthly range, 44, at Santa Fé.

Precipitation.—The rainfall was unusually heavy in the northern part of the territory, and at Santa Fé it was the heaviest recorded since the establishment of the station in 1871; greatest monthly, 5.25, at Chama; least monthly, 0.90, at Los Lunas.—*H. B. Hersey, Observer, Weather Bureau, Santa Fé, director.*

NEW YORK.

Temperature.—The average was 3.8 above the normal; maximum, 93, at Geneva, 17th; minimum, 26, at Keene Valley, 30th; greatest monthly range, 65, at Keene Valley; least monthly range, 34, at Setauket.

Precipitation.—The average was 1.54 below the normal; greatest monthly, 4.35, at Minnewaska; least monthly, 0.49, at Addison.—*Prof. E. A. Fuytes, Dean of the College of Civil Engineering, Cornell University, Ithaca, director; R. M. Hardinge, Observer, Weather Bureau, assistant.*

NORTH CAROLINA.

The month was characterized by the large number of clear days. The abundant sunshine and warmth were greatly needed and were most favorable for maturing and gathering crops.

Temperature.—The mean was normal; maximum, 93, at Mount Airy, 28th; minimum, 43, at Asheville, 15th; greatest monthly range, 15, at Mount Airy; least monthly range, 17, at Hatteras.

Precipitation.—The average was 2.92 below the normal; greatest monthly, 5.04, at Southport; least monthly, 0.55, at Concord.

Wind.—Prevailing direction, northeast.—*Dr. Herbert B. Battle, Raleigh, director; C. F. von Herrmann, Observer, Weather Bureau, assistant.*

NORTH DAKOTA.

Temperature.—The mean was 6.0 above the normal, and was highest on record for September; maximum, 97, at Grand Rapids, 21st, and at Steele, 18th; minimum, 19, at Willow City, 19th; greatest monthly range, 73, at Grand Rapids and Willow City; least monthly range, 51, at Fort Buford.

Precipitation.—The average was about normal; greatest monthly, 3.50, at Moorhead, Minn.; least monthly, 0.66, at Fort Buford.

Wind.—Prevailing direction, southeast.—*W. H. Fallon, Observer, Weather Bureau, Bismarck, director.*

OHIO.

Temperature.—The mean was 3.0 above the normal; maximum, 99, at Waverly, 19th; minimum, 36, at Granville, 9th.

Precipitation.—The average was 1.60 below the normal; greatest monthly, 3.01, at Elyria; least monthly, 0.81, at Marion.—*Prof. B. F. Thomas, Columbus, director; C. M. Strong, Observer, Weather Bureau, secretary and assistant.*

OREGON.

The month opened warm and closed with clear, cool weather and general light frosts.

Temperature.—The mean was 0.7 above the normal; maximum, 100, at Lakeview, 2d; minimum, 22, at Weston and Beulah, 30th.

Precipitation.—The average was 0.70 above the normal; greatest monthly, 6.14, at Astoria; least monthly, 0.00, at New Bridge.

Wind.—Prevailing direction, southwest.—*Hon. H. E. Hayes, Master State Grange, Portland, director; B. S. Pague, Observer, Weather Bureau, asst.*

PENNSYLVANIA.

Temperature.—The mean was 5.4 above the normal; maximum, 94, at Coatsville, 26th, and at Somerset, 17th; minimum, 32, at Wellsborough and Columbus, 30th; greatest monthly range, 61, at Somerset; least monthly range, 37, at Erie.

Precipitation.—The average was 1.18 below the normal; greatest monthly, 5.00, at Kennett Square; least monthly, 1.05, at Carlisle.

Wind.—Prevailing direction, southwest.—*Under direction of the Franklin Institute, Philadelphia; L. M. Dey, Observer, Weather Bureau, assistant.*

SOUTH CAROLINA.

Temperature.—Maximum, 92, at Batesburgh, Greenville, and Spartanburgh, 19th, and at Columbia, 23d; minimum, 50, at Spartanburgh, 28th.

Precipitation.—Greatest monthly, 6.06, at Charleston; least monthly, 0.49, at Greenville.

Wind.—Prevailing direction, northeast.—*A. P. Butler, Observer, Weather Bureau, Columbia, director.*

SOUTH DAKOTA.

Temperature.—The mean was about 8.0 above the normal; maximum, 107, at Forest City, 16th; minimum, 24, at Brookings, 29th; greatest monthly range, 76, at Webster; least monthly range, 53, at Spearfish.

Precipitation.—The average was 0.67 below the normal; greatest monthly, 4.11, at Webster; least monthly, 0.18, at Kimball.

Wind.—Prevailing direction, south.—*S. W. Glenn, Observer, Weather Bureau, Huron, director.*

TENNESSEE.

The most marked features of the month were the deficiency in rainfall and the abnormally high temperature. These conditions rendered the month rather disastrous to farmers.

Temperature.—The mean was 2.0 above the normal; maximum, 100, at Arlington, 22d; minimum, 44, at Arlington, 4th; greatest monthly range, 56, at Arlington, least monthly range, 18, at Lewisburgh.

Precipitation.—The average was 2.30 below the normal; greatest monthly, 3.08, at Bethel Springs; least monthly, 0.00, at Waynesborough.

Wind.—Prevailing directions, north and east.—*J. D. Plunket, M. D., Nashville, director; J. B. Marbury, Observer, Weather Bureau, assistant.*

TEXAS.

Temperature.—The mean was about normal in the eastern part of the state, and above the normal in all other parts, except along the immediate coast, where there was a slight deficiency, amounting in some localities to 3.0; maximum, 100, at Graham, 12th; minimum, 40, at Orange, 7th, and at Hansford, 3d; greatest monthly range, 55, at Hansford; least monthly range, 20, at Galveston.

Precipitation.—The average was about normal over the central and southwestern parts of the state, and the rainfall was deficient in the extreme eastern and northwestern parts, and over the coast region it was unevenly distributed; greatest monthly, 11.49, at Brazoria; least monthly, 0.23, at El Paso.—*D. D. Bryan, Galveston, director; I. M. Cline, Observer, Weather Bureau, assistant.*

UTAH.

Temperature.—The mean was above the normal during the first half of the month, and below during the latter half; maximum, 104, at Saint George, 3d; minimum, 28, at Scofield, 30th.

Precipitation.—The average was slightly above the normal; greatest monthly, 3.60, at Losee; least monthly, 0.62, at Deseret.—*G. N. Salisbury, Observer, Weather Bureau, Salt Lake City, director.*

VIRGINIA.

Temperature.—Maximum, 100, at Richmond, 19th; minimum, 42, at Dale Enterprise, 9th; greatest monthly range, 53, at Nottoway, C. H., and Richmond; least monthly range, 31, at Norfolk.

Precipitation.—Greatest monthly, 3.40, at Stanardsville; least monthly, 0.98, at Wytheville.—*Dr. E. A. Craighill, Lynchburgh, director; J. N. Ryker, Observer, Weather Bureau, assistant.*

WASHINGTON.

Temperature.—Maximum, 90, at Fort Simcoe, 3d; minimum, 26, at Waterville, 20th; greatest monthly range, 62, at Baker City, Oregon; least monthly range, 29, at East Sound.

Precipitation.—Greatest monthly, 11.06, at Tatoosh Island; least monthly, 0.06, at Fort Simcoe.

Wind.—Prevailing direction, south.—*E. B. Olney, Observer, Weather Bureau, Olympia, director.*

WISCONSIN.

Temperature.—Maximum, 98, at Whitehall, 18th; minimum, 27, at Florence, 4th.

Precipitation.—Greatest monthly, 2.91, at Plover; least monthly, 0.02, at Cadiz.—*W. L. Moore, Observer, Weather Bureau, Milwaukee, director.*

CONTRIBUTIONS AND ORIGINAL ARTICLES.

FLUCTUATIONS OF TEMPERATURE AND PRESSURE AT THE BASE AND SUMMIT OF MOUNT WASHINGTON.

[By Prof. H. A. HAZEN, Weather Bureau.]

At the end of the maps in this Review will be found a continuation of the curves previously published in July and August. There have been added this month the fluctuations in pressure at the summit as well as at the base. It will be noted that these pressure changes present almost exactly the same phase at the summit as at the base. Frequently the summit curve lags a little behind that at the base, as has already been noted. See Annual Report of the Chief Signal Officer, 1882, pp. 897-926.

Attention is called to the remarkable abruptness of the fluctuations of temperature at Mount Washington, especially when the temperature falls after

a storm has passed and a high area approaches. Examples of this may be noted as follows: January 9, 1879, fall of 22° in 8 hours; January 25, 1879, 32° in 16 hours; February 1, 1880, 38° in 16 hours; February 9, 1880, 20° in 8 hours; March 7, 1880, 26° in 8 hours; January 22, 1882, 41° in 16 hours; February 17, 1882, 29° in 8 hours; and March 24, 1882, 24° in 8 hours.

These very rapid falls in temperature may be due to the downward action of a cold wave as a storm passes off. It invariably occurs on the east side of a high area and many hours before its center reaches the summit.

It should also be noted that the close agreement between the fluctuations of temperature at the base and summit seems to indicate some general and far-reaching effect produced by extended waves of heat and cold, rather than a more or less local effect produced by the wind or by more intense radiation to the sky at some times rather than others.

METEOROLOGICAL TABLES.

Meteorological record of Army post surgeons, voluntary, and other co-operating observers, September, 1891.

Stations.	Temperature. (Fahrenheit.)			Precip'n.		Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean.			Max.	Min.	Mean.	
<i>Alabama.</i>	o	o	o	<i>Ins.</i>		<i>Alabama—Cont'd.</i>	o	o	<i>Ins.</i>
Bermuda *†.....	90	56	74.3	4.07		Double Springs †.....	89	55	70.6
Bessemer.....	94	50	74.3	1.21		Eufaula (2).....	90	56	74.3
Brewton †.....	95	50	76.0	2.00		Evergreen.....	92	50	75.0
Carrollton †.....	92	54	72.4	1.25		Florence†.....	.....	.....	0.57
Chepultepec †.....	80	46	67.5	0.20		Fort Deposit†.....	92	54	75.1
Citronelle †.....	90	60	77.0	2.23		Gadsden †.....	.....	.....	3.59
Columbiana †.....	.....	.....	.....	3.11		Goodwater †.....	87	57	73.5
Cordova †.....	.....	.....	.....	3.00		Greensborough.....	92	60	77.0
Decatur (1) †.....	.....	.....	.....	0.87		Jasper †.....	90	46	69.9
Decatur (2) †.....	92	48	70.4	1.20		Livingston (1) * †.....	90	53	73.0

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.		Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean.				Max.	Min.	Mean.	
<i>Alabama—Cont'd</i>	o	o	o	<i>Ins.</i>		<i>Alabama—Cont'd</i>	o	o	o	<i>Ins.</i>
Livingston (2) †.....	92	52	74.2	1.01		Talladega †.....	.....	.....	.....	1.57
Lynn†.....	.....	.....	.....	1.32		Tallasse Falls †.....	.....	.....	.....	2.29
Mt. Vernon B'ks.....	93	56	76.4	3.85		Thomasville.....	90	54	72.6	1.60
Opelika†.....	90	50	70.3	0.94		Tuscaloosa †.....	94	53	74.8	1.46
Orville †.....	93	52	75.0	1.98		Tusculum (1) †.....	93	54	71.5	0.75
Oxanna†.....	90	52	72.3	2.31		Tusculum (2) †.....	94	51	72.0	0.70
Pine Apple†.....	93	53	73.2	3.25		Union Springs †.....	91	61	72.8	3.59
Pushmataha †.....	91	57	75.7	0.82		Uniontown †.....	92	55	75.2	2.02
Selma (1) †.....	.....	.....	.....	1.93		Valley Head †.....	92	48	68.4	2.70
Selma (2) †.....	94	54	76.8	1.90		Warrior †.....	.....	.....	.....	3.62
Sturdevant†.....	.....	.....	.....	3.19						